

### ***Remarks***

Upon entry of the foregoing amendment, claims 1-4, 6-16, 18-22, 24-26, and 28-61 are pending in the application, with claim 1 being the independent claim. Claims 5, 17, 23, and 27 are sought to be cancelled without prejudice to or disclaimer of the subject matter therein. Claims 22 and 24 are sought to be amended. These changes are believed to introduce no new matter, and their entry is respectfully requested.

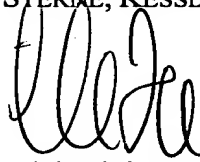
### ***Conclusion***

The amendments made herein introduce no new matter and their entry is respectfully requested. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Preliminary Amendment is respectfully requested.

Respectfully submitted,

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**Version with markings to show changes made**

22. (once amended) The WLAN device of claim 1, wherein said transmitter receives an information signal, wherein said information signal comprises an I baseband signal and a Q baseband signal, wherein said transmitter comprises:

- (1) a first modulator that receives said I baseband signal and outputs a modulated I phase signal;
- (2) a second modulator that receives said Q baseband signal and outputs a modulated Q phase signal;
- (3) first differential sampling means for sampling said modulated I phase signal according to a first control signal and a second control signal, to generate an I harmonically rich signal, wherein said second control signal is phase shifted relative to said first control signal;
- (4) second differential sampling means for sampling said modulated Q phase signal according to said first control signal and said second control signal, to generate a Q harmonically rich signal;
- (5) means for combining said I harmonically rich signal and said Q harmonically rich signal, to generate an I/Q harmonically rich signal, said I/Q harmonically rich signal having multiple harmonic images that contain amplitude and frequency information for reconstruction of the I and Q phase signals;  
wherein said first and second control signals have a period of  $T_s$  so that said harmonic images repeat at multiples of  $1/T_s$ ;  
wherein said first and second control signal comprise pulses [having an associated pulse width  $T_A$  that operates to improve energy transfer to a desired harmonic image in said corresponding I and Q harmonically rich signals]; and  
wherein said output RF signal comprises said I/Q harmonically rich signal.

24. (once amended) The WLAN device of claim 1, wherein said transmitter receives an information signal, wherein said transmitter comprises:

- a modulator that receives said information signal and outputs a modulated signal;
- a buffer/inverter, for receiving said modulated signal and generating an inverted modulated signal;
- a first controlled switch, coupled to an output of said buffer/inverter, said first controlled switch shunting said modulated signal to ground according to a first control signal, and resulting in a first harmonically rich signal;
- a second controlled switch coupled to a second output of said buffer/inverter, said second controlled switch shunting said inverted modulated signal to ground according to a second control signal, and resulting in a second harmonically rich signal;
- a combiner, coupled to an output of said first controlled switch and an output of said second controlled switch, said combiner combining said first harmonically rich signal and said second harmonically rich signal, resulting in a third harmonically rich signal;

wherein said first control signal and said second control signal comprise pulses [having a pulse width  $T_A$  that operate to improve energy transfer to a desired harmonic in said third harmonically rich signal];

wherein said first control signal and said second control signal are phase shifted with respect to each other; and

wherein said output RF signal comprises said third harmonically rich signal.

Claims 5, 17, 23, and 27 have been canceled.